Title (en)

CONTENT MANAGEMENT BASED ON DITHER-LIKE WATERMARK EMBEDDING

Title (de)

INHALTSVERWALTUNG AUF BASIS VON DITHERÄHNLICHER WASSERZEICHENEINBETTUNG

Title (fr)

GESTION DE CONTENU SUR LA BASE D'UNE INCORPORATION DE TATOUAGE NUMÉRIQUE DU TYPE À TREMBLEMENT

Publication

EP 3183882 A4 20180704 (EN)

Application

EP 15833725 A 20150819

Priority

- US 201462039547 P 20140820
- US 2015045960 W 20150819

Abstract (en)

[origin: US2016055606A1] Methods, devices and computer program products allow improved detection of watermarks into and from a multimedia content. One method for detecting watermarks from a host content includes performing watermark extraction to obtain a first sequence of watermark symbols from the host content and generating a plurality of predicted watermark templates. Each template corresponds to a sequence of watermark symbols that is predicted based on the first sequence of watermark symbols. A section of the host content is processed to obtain a candidate sequence of watermark symbols and correlation operations between the candidate sequence of watermark symbols and symbols of the predicted watermark templates are performed until a correlation result that is indicative of a successful watermark detection is obtained. An indication that the candidate sequence of watermark symbols represents at least a portion of a reliably extracted watermark message can then be produced.

IPC 8 full level

H04N 21/2389 (2011.01); **H04N 21/8358** (2011.01)

CPC (source: EP KR US)

G06F 21/16 (2013.01 - EP US); **G06T 1/0028** (2013.01 - KR US); **G06T 1/005** (2013.01 - EP US); **G06T 1/0085** (2013.01 - KR US); **G06V 20/46** (2022.01 - KR US); **H04N 5/08** (2013.01 - KR US); **H04N 19/467** (2014.11 - KR US); **H04N 21/00** (2013.01 - US); **H04N 21/43072** (2020.08 - EP US); **H04N 21/4627** (2013.01 - EP US); **H04N 21/8358** (2013.01 - EP US); G06T 2201/005 (2013.01 - KR US); G06T 2201/0065 (2013.01 - EP KR US)

Citation (search report)

- [XI] US 2011058188 A1 20110310 - GUO JING-MING [TW], et al
- [A] US 2013152210 A1 20130613 - PETROVIC RADE [US], et al
- [A] CN 103533343 A 20140122 - UNIV NINGBO
- See references of WO 2016028934A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2016055606 A1 20160225; **US 9639911 B2 20170502**; CN 106796625 A 20170531; CN 106796625 B 20190924; EP 3183882 A1 20170628; EP 3183882 A4 20180704; EP 3183883 A1 20170628; EP 3183883 A4 20180328; EP 3183888 A1 20170628; EP 3183888 A4 20180404; KR 20170043627 A 20170421; US 10354354 B2 20190716; US 10445848 B2 20191015; US 2016055607 A1 20160225; US 2016057317 A1 20160225; US 2018018748 A1 20180118; US 9805434 B2 20171031; WO 2016028934 A1 20160225; WO 2016028936 A1 20160225; WO 2016029055 A1 20160225

DOCDB simple family (application)

US 201514830641 A 20150819; CN 201580055189 A 20150819; EP 15833725 A 20150819; EP 15833741 A 20150819; EP 15834491 A 20150820; KR 20177007558 A 20150819; US 2015045960 W 20150819; US 2015045964 W 20150819; US 2015046166 W 20150820; US 201514830591 A 20150819; US 201514831752 A 20150820; US 201715715755 A 20170926